



# FCM11.2 — AOP/NOP integration

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As part of the evolution of processes and procedures, new data elements will be shared and also negotiated between AOP and NOP. These will have to be integrated in addition to the information that is shared in the iAOP-NOP exchange. The processes, procedures and underlying concepts for the creation and integration will have to be agreed upon and/or adapted.

This will apply to arrival planning information (e.g. TTO/TTA via API), as well as departure information (e.g. P-DPI based on airport capacity information), and also enhanced management of capacities (e.g. diversion capabilities).

### System requirements:

The Network Manager shall implement an increased integration of NOP and Airport Operations Plan (AOP) relevant information (for example, TTAs) resulting from a Cooperative Decision-Making Process (ref. Article 2.14 of the EC Regulation of the Network Function).

The AOP shall make available in real time to the NOP data that is appropriate and relevant to inform actions by Network Manager to adjust capacity in the network where appropriate. Such data shall be mutually agreed by the Network Manager and the Airport.

For airports with AOP, the NM shall share with the AOP the arrival demand and establish a collaborative decision-making process at local ATFM level to allow amendments to the TTAs based on the AOP.

### AOP system requirements:

- The AOP systems must consume and process the flight updates published by NM via the NM B2B Services;
- The AOP systems must provide to NM the Extended Departure Planning Information via the NM B2B Services;
- The AOP systems must provide to NM the Arrival Planning Information via the NM B2B Services;
- If bilaterally agreed between NM and concerned airports and defined in respective ICD, the AOP systems should be capable of providing additional airport information (runway configurations, airport performance measurement) to NM.

### NM system requirements:

- The NM system must be upgraded to process the information provided by the AOP system concerning the Extended DPI and API;
- The NM system must provide the flight updates information necessary to the AOP systems;
- If bilaterally agreed between NM and concerned airports and defined in respective ICD, the NM systems must be capable of integrating additional airport information (runway configurations, airport performance measurement).

*NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.*

<b>Edition</b>	2022
<b>Stakeholders</b>	Air Navigation Service Provider / Airport Operator / Network Manager
<b>Type</b>	CP1
<b>Scope</b>	Airport
<b>Status</b>	Active

## Context

### Related Elements



## Applicability Area(s) and Timescales

**Applicability Area 1:** See list of airports in MP Level 3 Implementation Plan - Annexes (30 CP1 airports)

**Applicability Area 2 (non-CP1 Airports):** See list of airports in MP Level 3 Implementation Plan - Annexes (Non-CP1 Airports)

Timescales	From	By	Applicable to
Initial Operational Capability	01-01-2021	-	Applicability Area 1 + Applicability Area 2 (non-CP1 Airports)
Full Operational Capability / Target Date	-	31-12-2027	Applicability Area 1 + Applicability Area 2 (non-CP1 Airports)

## Links to ATM Master Plan Level 2

### **OI** Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
AO-0801-A	Collaborative Airport Planning Interface	31-12-2020	31-12-2025	SOL OI EN OBJ DS PCP ICAO
AO-0802-A	A-CDM process enhanced through integration of landside (passenger only) process outputs	31-12-2023	31-12-2027	SOL OI EN DS ICAO
AO-0803	Integration of Airports into ATM through Monitoring of Airport Transit View (Extension of Performance Monitoring building on A-CDM)	31-12-2022	31-12-2026	SOL OI EN DS ICAO
DCB-0103-A	Initial collaborative NOP	01-07-2022	01-07-2027	SOL OI EN OBJ DS PCP ICAO
DCB-0208	DCB in a trajectory management context	31-12-2026	31-12-2032	SOL OI EN OBJ DS PCP ICAO
DCB-0310	Improved Efficiency in the Management of Airport and ATFCM Planning	31-12-2021	31-12-2025	SOL OI EN DS ICAO

### **SOL** Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

### **PCP** Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

**ICAO** ICAO Block Modules: No associated data

## References

### Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One

### Applicable ICAO Annexes and other references

None

### Deployment Programme 2022

Family 4.4.1 - AOP/NOP Integration

### Operating Environments

-

## Expected Performance Benefits

<b>Safety</b>	Improved situational awareness.
<b>Capacity</b>	Increased capacity. Enhanced safety. Improved airport resilience/limiting capacity reduction in degraded situations.
<b>Operational efficiency</b>	-
<b>Cost efficiency</b>	Improved information sharing. Enhanced predictability.
<b>Environment</b>	-
<b>Security</b>	-

## Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Define AOP/NOP integration data and procedures	01-01-2021	31-12-2027	
APO01	Define AOP/NOP integration data and procedures	01-01-2021	31-12-2027	
APO02	Prepare AOP for the exchange with NOP	01-01-2021	31-12-2027	
APO03	Safety assessment	01-01-2021	31-12-2027	
APO04	Training	01-01-2021	31-12-2027	
APO05	Operational use	01-01-2021	31-12-2027	
NM01	Define AOP/NOP integration data and procedures	01-01-2021	31-12-2027	
NM02	Prepare NOP for integration with AOPs	01-01-2021	31-12-2027	
NM03	Safety assessment	01-01-2021	31-12-2027	
NM04	Training	01-01-2021	31-12-2027	
NM05	Operational use	01-01-2021	31-12-2027	

## Supporting Material

Title	Related SLOs
SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>	APO01, APO02, APO03, APO04, APO05, ASP01, NM01, NM02, NM03, NM04, NM05

## Consultation & Approval

Working Arrangement in charge	-
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	-
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-